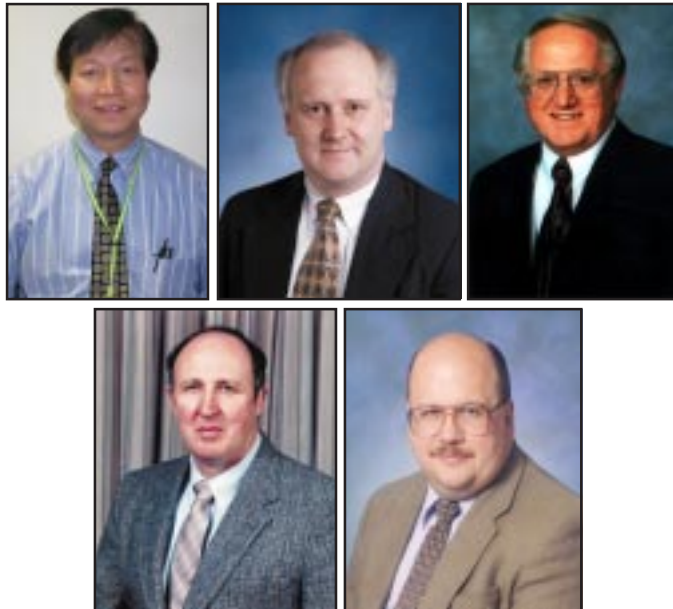




FIVE SCIENTISTS SELECTED AS AFRL “FELLOWS”



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Payoff

Dr. Charles Y-C Lee, Air Force Office of Scientific Research; Dr. Richard W. Linderman, Information Directorate; Dr. Melvin C. Ohmer, Materials and Manufacturing Directorate; Dr. LaVerne A. Schlie, Directed Energy Directorate; and Dr. Michael C. Wicks, Sensors Directorate were recently selected Air Force Research Laboratory (AFRL) “Fellows.” Individuals appointed AFRL “Fellows” lead and take part in special activities that enhance the laboratory’s image. These scientific leaders represent the lab in significant endeavors in the national and scientific engineering communities and are encouraged to advise senior managers on substantial issues.

Accomplishment

Dr. Lee, an internationally recognized expert in polymer and organic materials research, recently initiated research into polymer matrix composites, which are key technologies for stealth and space structure applications. Dr. Linderman, a distinguished leader in the fields of high performance computing architectures and signal/image processing, has transitioned his designs for a single wafer scale signal processor and short stack memory to several Department of Defense programs. This technology is now used commercially to significantly increase the memory density of the Cray J90 super computer. Dr. Ohmer is internationally recognized for his expertise in the areas of electrical and magnetic/optical properties of materials, and the interaction of electromagnetic radiation with solids. He was pivotal to the development of component technologies used in a new tunable laser, source which is an integral part of future infrared countermeasures systems that will protect weapons systems from heat-seeking missiles. Dr. Schlie made noteworthy contributions to photolytic iodine laser research that makes high-energy, high-beam quality laser systems possible and crucial to several DoD applications. Dr. Wicks, the leading Air Force expert in a number of radar technologies, invented ultra-wideband antennas, signal generation devices, receivers, and clutter suppression techniques. His work has the potential to significantly enhance the survivability and performance of advanced radar sensors.

Background

Military and civilian scientists and engineers, comprising about 55 percent of the AFRL’s workforce, are eligible for selection as an AFRL “Fellow.” To be eligible, participants must be assigned to AFRL for the past three consecutive years and have at least seven years of active federal service. The work recognized must have been performed at the laboratory or one of its predecessors. Appointment as an AFRL “Fellow” recognizes their ideas, leadership and motivation toward high achievement in direct support of the warfighter. Their selection recognizes AFRL’s efforts supporting Air Force operational requirements, and significantly enhances the lab’s reputation as a world leader in research and development.